

Intermec

## Product Profile



**Intellitag**  
RFID by Intermec

- Supports current RFID industry standard
- Protects customer investment with unique product features to support growth of future RFID standards
- First RFID printer to encode frequency agile UHF tags
- Encodes and prints RFID labels without host system reprogramming
- Simultaneously print barcodes, human readable text, and graphics
- Supports stand-alone printer applications
- Integrated EasyLAN™ Ethernet, USB, and serial interface standard
- Optional EasyLAN™ Wireless interface

### INTELLITAG® PM4i PRINTER

The multi-function Intellitag PM4i printer gives you the reliability, ruggedness and performance you have come to expect in a barcode printer from Intermec, along with the latest RFID technology in the same box.

With the Intellitag PM4i, companies can create RFID smart labels to drive RFID applications without host reprogramming. By using frequency agile RFID tags, the Intellitag PM4i can simultaneously encode and print labels that can be used worldwide, thus enabling the tag to be read via multiple frequencies, dependant on regional standards.

The Intellitag PM4i printer can also act as a "smart client" executing user-defined programs for completely stand-alone printer applications. This means your Intellitag PM4i printer can eliminate the personal computer, operate additional hardware (e.g. scanners, other printers, conveyors), access information from network host, and retain the ability to change with the application for additional functionality.

Integrated EasyLAN™ Ethernet, USB, and serial are standard interfaces with the Intellitag PM4i printer. Users also have the option to add additional EasyLAN Wireless and / or industrial interface boards. The EasyLAN Wireless interface uses an integrated standard 802.11b radio. This radio provides 128-bit WEP encryption of the information relayed through the network. Intermec's wired and wireless technology ensures secure printing and network infrastructure for all environments.

The Intellitag PM4i printer integrates into industrial manufacturing, warehouse, and logistics applications ensuring all items are labeled and tracked via RFID for quick and accurate data collection throughout the supply chain.

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**Application**

RFID Enabled Direct Thermal and Thermal Transfer label, ticket and tag printer.

**Physical Characteristics**

**Length:** 54.3 cm (21.38 in)  
**Height:** 26.1 cm (10.28 in)  
**Width:** 29.8 cm (11.73 in)  
**Weight:** 13.5 kg (29.76 lbs.)

**RFID Standards Supported**

- 13.56 MHz ISO 15693
- 860-915 MHz ISO 18000 6-b
- Upgradeable to UHF Generation 2 upon announcement of standards

**RFID Specifications Supported**

- EPC Classes

**Print Specifications**

**Max. Width:** 104 mm (4.09 in) at 203 dpi; 105.7 mm (4.16 in) at 300 dpi.  
**Max. Length w/ std memory:** 2520 mm (99.2 in) at 203 dpi; 1092 mm (43.0 in) at 300 dpi.  
**Max length w/ 16MB SDRAM:** 4095 mm (161.2 in) at 203 dpi; 2730 mm (107.5 in) at 300 dpi.

**Print Speed**

Up to 76 labels per minute. 101x152mm (4x6 in) GM1724 label. To learn more about print speed, please visit [www.intermec.com/printspeed](http://www.intermec.com/printspeed).

**Print Direction**

Prints smooth text, any size bar codes and graphics in all four orthogonal directions.

**Print Resolution**

**8 dots/mm (203 dpi); 11.8 dots/mm (300 dpi)**

**Label/Ticket/Tag**

**Max. Width:** 114.3 mm (4.5 in)  
**Min. Width:** 25.4 mm (1 in)  
**Thickness:** 2.5 to 7 mil  
**Style:** Roll-fed, die-cut, continuous or fanfold labels, tags or tickets  
**Label Roll max diameter:** 213 mm (8.38 in)  
**Label Roll Core:** 38-76 mm (1.5-3 in)  
**Media Type:** Thermally sensitive media

**Ribbon Roll**

Ribbon roll max diameter: 83 mm (3.27 in) or approx. 450 m (1475 ft) of ribbon

**Ribbon Roll Core: 25 mm (1 in)**

**Ribbon Type:** Wax, wax/resin, resin

**Intellitag Label Specifications**

**Tag thickness:** Less than .25 mm (.010 in)  
**Tag insert size:** 13mm x 70mm (.5 in x 3 in); 95mm x 95mm (3.75 in x 3.75 in)  
**Tag placement:** Between label and backing paper, location within label customized for each application.  
**Tag orientation:** Perpendicular to feed direction.

**Interface Standard**

- RS-232, up to 115.2 k/s
  - USB 1.1
  - EasyLAN Internal Ethernet 100/10BaseT
  - I2C-bus for cutter
  - Wand interface for EasySet™ System
- Optional**
- EasyLAN Wireless, internal 802.11b Wireless Ethernet
  - Parallel IEEE 1284

**Software**

**Available printer command languages:**

- IPL
  - Fingerprint/Direct Protocol
- Software Development Kit:** A custom Fingerprint program to interface with RFID module and host system is easily generated through the use of Intermec Fingerprint ApplicationBuilder (IFAB), a software development kit for Fingerprint with RFID libraries.

**Bar Code Symbolologies**

**1-dimensional:** Code 2 of 5, Codabar, Code 11, Code 39, Code 93, Code 128, Interleaved 2 of 5, Straight 2 of 5, Matrix 2 of 5, Postnet, Code One, UPC/EAN, JIS-ITF  
**2-dimensional:** Code 16K, Code 49, DataMatrix, PDF417, QR Code, MicroPDF417, MaxiCode, Plessey, MSI

**Standards Supported**

UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; ALAG (shipping parts label); LOGMARS; POSTNET; HIBC; ISBT 128; GM1724; UPS shipping label; Global Transport label

**Characters Sets**

**Fingerprint/DP:** 15 TrueType™ fonts including 12

UNICODE (1 WGL4), 1 symbol, 1 OCR-A, 1 OCR-B. All fonts are scalable. Font cache for maximum performance. ATF font support.  
**IPL firmware:** 3 TrueType fonts and 20 bitmap fonts.  
 Non-Latin fonts are available as options.

**Graphics**

Supports PCX file format.

**Memory**

**Standard:** SRAM 8 MB, Flash 4 MB  
**Optional:** SRAM 16 MB, Flash 16 MB, 1 GB Compact Flash Memory

**Protocol**

**Fingerprint/Direct Protocol:**  
 XON/XOFF, ENQ/ACK, DTR, RTS/CTS  
 IPL: XON/XOFF, Intermec Std. Protocol

**Display**

**Back-lit LCD for 2x16 characters and 3 LED indicator lamps**

**Keypad Control Panel**

- Full keypad control panel (Fingerprint/DP)
- Reduced keypad control panel (IPL)

**Power Supply**

**115/230VAC auto-switch w/PFC**  
 Voltage range: 90-264VAC.  
 Frequency Range: 45-65 MHz

**Operating Environment**

**Temperature:** +5°- 40°C (+40°- 104°F)  
**Humidity:** 20-80% RH non-condensing  
**Noise:** 50 dB (printing); no noise standby

**Regulatory Approvals**

**CE (EN55022 Class A), FCC Class A, UL, CSA, C-Tick**

**Options**

Integral Self-Strip unit with Liner Takeup, Label Taken Sensor (LTS), Compact Flash (CF) memory, Flash and SDRAM SIMM memory, Various International Double Byte Fonts, EasySet Bar Code Wand\*, External RS-232C Alphanumeric Keyboard\*, Parallel Interface Board, Real Time Clock\*, Media Supply Hub, Cutter, Label Low Sensor

\*Not applicable when using IPL firmware

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